

IN THE CLAIMS

Please amend the status of the claims to that as indicated below:

Claims 1-15 (canceled)

16. (currently amended) An imaging apparatus for nuclear magnetic resonance, comprising:

a plurality of coils assembled in a field array with each individual coil of said plurality of coils capable of transmitting or receiving, or both, frequency signals, each said individual coil including:

a conductor path defining an area; and,

an electrical conductor disposed in said area with said electrical conductor being arranged either within, or outside of, said individual coil and completely surrounding said individual coil for forming a closed circuit, said electrical conductor not being a superconductor,[[.]]

wherein each said electrical conductor for each said individual coil forms a shielding and is arranged outside of each individual coil.

17. (previously presented) The imaging apparatus for nuclear magnetic resonance according to Claim 16, wherein there are at least two said electrical conductors with a first electrical conductor being arranged within said individual coil and a second electrical conductor being arranged outside said electrical coil.

18. (previously presented) The imaging apparatus for nuclear magnetic resonance according to Claim 16, wherein said each individual coil or said electrical conductor has a spatial profile having a polygonal shape.

19. (previously presented) The imaging apparatus for nuclear magnetic resonance according to Claim 16, wherein said area is a plane.

20. (previously presented) The imaging apparatus for nuclear magnetic resonance according to Claim 16, wherein said electrical conductor is arranged outside of each said individual coil and completely surrounds each said individual coil by an equidistance.

Claim 21 (canceled)

22. (currently amended) The imaging apparatus for nuclear magnetic resonance according to Claim ~~[[21]]~~ 16, wherein each said electrical conductor of each said individual coil adjacent one another, at least, partially overlap one another.

23. (currently amended) The imaging apparatus for nuclear magnetic resonance according to Claim ~~[[21]]~~ 16, wherein each said electrical conductor forming said shielding, at least partially, overlaps an adjacent said electrical conductor and an adjacent said individual coil, with overlapping of adjacent said individual coils not occurring.

24. (currently amended) The imaging apparatus for nuclear magnetic resonance according to Claim ~~[[21]]~~ 16, wherein each said electrical conductor forming said shielding and said conductor path of each said individual coil overlap one another.

25. (previously presented) The imaging apparatus for nuclear magnetic resonance according to Claim 16, wherein each said individual coil includes an inductance incorporated into said individual coil.

26. (previously presented) The imaging apparatus for nuclear magnetic resonance according to Claim 16, wherein each said individual coil includes a capacitance incorporated into said individual coil.

27. (previously presented) The imaging apparatus for nuclear magnetic resonance according to Claim 26, wherein said capacitance is arranged between said individual coil and said electrical conductor.

28. (previously presented) The imaging apparatus for nuclear magnetic resonance according to Claim 16, wherein each said electrical conductor includes an inductance incorporated into said electrical conductor.

29. (previously presented) The imaging apparatus for nuclear magnetic resonance according to Claim 16, wherein each said electrical conductor includes a capacitance into said electrical conductor.

Claims 30 – 31 (canceled)

32. (previously presented) The imaging apparatus for nuclear magnetic resonance according to Claim 16, wherein each said individual coil is able to be short-circuited via a switchable diode.

33. (previously presented) The imaging apparatus for nuclear magnetic resonance according to Claim 32, wherein said switchable diode is a PIN diode.

34. (previously presented) The imaging apparatus for nuclear magnetic resonance according to Claim 16, wherein each said electrical conductor is able to be temporarily opened via a switch.

35. (previously presented) The imaging apparatus for nuclear magnetic resonance according to Claim 34, wherein said switch is a switchable diode.

36. (new) An imaging apparatus for nuclear magnetic resonance, comprising:
a plurality of coils assembled in a field array with each individual coil of said plurality of coils capable of transmitting or receiving, or both, frequency signals, each said individual coil including:

a conductor path defining an area; and,

an electrical conductor disposed in said area with said electrical conductor being arranged either within, or outside of, said individual coil and completely surrounding said individual coil for forming a closed circuit, said electrical conductor not being a superconductor,

wherein said electrical conductor, forming a shielding, extends perpendicularly beyond said area in, at least, one direction.

37. (new) An imaging apparatus for nuclear magnetic resonance, comprising:
a plurality of coils assembled in a field array with each individual coil of said plurality of coils capable of transmitting or receiving, or both, frequency signals, each said individual coil including:
a conductor path defining an area; and,
an electrical conductor disposed in said area with said electrical conductor being arranged either within, or outside of, said individual coil and completely surrounding said individual coil for forming a closed circuit, said electrical conductor not being a superconductor,
wherein said electrical conductor forms a shielding that is earthed.